BATTERY ENERGY STORAGE SYSTEM

LET THE SUN TAKE THE NECESSARY STEPS



Lithium-ion batteries are responsible for the exemplary performance of the storage system but utmost care must be taken to manufacture the highest quality Li-ion batteries that meet the industry standards.



With the ever-increasing population, conservationists have been showing great concern for the depleting state of natural resources. To compensate for the lost resources and to be self-sufficient in the future, the world is heavily investing in energy storage space.

Initiatives are underway to inculcate a culture of judiciously utilizing available energy which is giving the desired impetus to the adoption of 'green technology.'



Considering that the energy storage sector offers renewable energy storage solutions, it can easily supply exhausting resources naturally. As a tremendous amount of energy and resources are required to run the various operations across the sectors, it finds irrevocable applications in a wide range of industries like solar, electric vehicles, telecom, data centers, power, defense, space/ satellite, healthcare, etc.



Finding an alternative for exhausting natural resources, today industries are shifting towards renewable energy which stores energy with the help of Li-ion batteries. Among the various sectors, in recent years, as the world has been unanimously undergoing digitization, the need for data centers has escalated profoundly. The data centers require a huge amount of energy to keep the various operations running. Here, the energy storage sector in the form of Li-ion battery technology fulfills the power backup demand of the data centers.

What Is a Battery Energy Storage System? How Does It Work?

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A battery energy storage system is an electrochemical device that stores energy when demand for energy is low and releases it when demand is high. Various forms of energy, including renewable energy – from solar or wind for example – can charge it.

The most common form of grid-scale battery energy storage systems are lithium-ion batteries, the same type of batteries used in cell phones and electric vehicles. Lithium-ion batteries hold their charge longer than most other types, and costs declined 80% from 2013 to 2021 because of technological and manufacturing advancements, further increasing their use.

While lithium-ion batteries are the most popular, other types of batteries include lead-acid, sodium-based, and redox flow

Battery energy storage systems lend stability to the grid while using more renewable resources.

Energy storage also allows operators to store power when it's cheaper and release it when prices are higher.



Utility Scale Solutions

> MW Scale



- BESS MITSUBISHI MITSUBISH
- Grid Stabilization (Ancillary Service)
- Energy Arbitrage
 - Integrating battery energy storage system based on our engineering & EPC experiences
 - Robust, bankable utility grade system, with tier 1 suppliers
 - Cost effective and scalable
 - Customizable ratings MW and MWh
 - Containerized outdoor package design for easy construction and maintenance
 - System design for optimized footprint and turnkey cost
 - Available as just an equipment package or turnkey